

## WISM - Other: Twin Otter International 02/05/17 Science Report

**Aircraft:**

Other: Twin Otter International

**Date:**

Sunday, February 5, 2017

**Mission:**

WISM

**Mission Location:**

Grand Junction, CO

**Mission Summary:**

Third flight for the WISM instrument of this campaign. Flight was conducted around the Grand Junction airport. Tim Durham, Kerry Speed and Quenton Bonds flew. Pilots were Thomas Sommerville and Ross Rice. Sky was mostly clear with scattered clouds. The aircraft flew multiple loops around the airport at an altitude of 5000 ft on a track that placed the projected antenna pattern directly over four, in-line calibration targets located in a field adjacent to the aircraft hanger.

Tri-band radar test flight around the airport. On flight 2 one of the radar computers failed to boot. Upon landing the issue was resolved and so this third flight was conducted to test that all six radar channels are working. Radiometer collected data but was not connected to the antenna to minimize potential impact on radar data collects.

**Submitted by:**

Paul Racette on 02/07/17

**File:**

 [WISM\\_flight\\_report\\_02\\_05\\_2017\\_flight3.pdf](#)

**Related Flight Report:**

### Other: Twin Otter International 02/05/17

**Flight Number:**

2

**Payload Configuration:**

WISM

**Nav Data Collected:**

Yes

**Total Flight Time:**

0.8 hours

**Submitted by:**

Sommer tBeddingfield on 02/22/17

**Flight Segments:**

<b>From:</b>	GJT	<b>To:</b>	GJT
<b>Start:</b>	02/05/17 15:25 Z	<b>Finish:</b>	02/05/17 16:15 Z
<b>Flight Time:</b>	0.8 hours		
<b>Log Number:</b>	<a href="#">17M014</a>	<b>PI:</b>	Lora Koenig
<b>Funding Source:</b>	Parminder Ghuman - NASA - SMD - ESD ESTO - IIP Program Manager		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Tri-band radar test flight around the airport. Two radar channels didn't work during the first flight. Repairs were made to the radar and this flight aimed to verify all six radar channels work. Problem with the radar computer prevented data from being collected. Radiometer collected data but was not connected to the antenna to minimize potential impact on radar data collects.		

**Flight Hour Summary:**

	16M038	17M014
<b>Flight Hours Approved in SOFRS</b>		12
<b>Total Used</b>	0	7.3
<b>Total Remaining</b>		4.7
<b>17M014 Flight Reports</b>		

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
<a href="#">02/03/17</a>	1	Science	0.8	0.8	11.2
<a href="#">02/05/17</a>	2	Science	0.8	1.6	10.4
<a href="#">02/05/17</a>	3	Science	0.7	2.3	9.7
<a href="#">02/06/17</a>	4	Science	0.8	3.1	8.9
<a href="#">02/08/17</a>	5	Science	0.5	3.6	8.4
<a href="#">02/09/17</a>	6	Science	1.9	5.5	6.5
<a href="#">02/10/17</a>	7	Science	1.8	7.3	4.7

**Source URL:** [https://airbornescience.nasa.gov/science\\_reports/WISM\\_-\\_Other\\_Twin\\_Otter\\_International\\_02\\_05\\_17\\_Science\\_Report\\_0](https://airbornescience.nasa.gov/science_reports/WISM_-_Other_Twin_Otter_International_02_05_17_Science_Report_0)

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*Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.*